

**TRIDENT COMMAND AND CONTROL TEAM TRAINER, DEVICE 21A42****TRAINING CATEGORY:**

SEABASED STRATEGIC SYSTEM

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION:Device 21A42 is SECRET with software and
CONFIDENTIAL without software.**PURPOSE OF DEVICE:**

To provide tactical training at the general operator, sub-team, or team level for single-ship TRIDENT operations in a simulated hostile environment. Expertise is developed in coordination of ship control, sensors, avoidance and evasion, weapons, periscope usage, and tactical evaluation and decision-making.

INTENDED USE:

Shore-based simulated scenario training.

FUNCTIONAL DESCRIPTION:

The TRIDENT Command and Control Team Trainer (CCTT) enhances the attack center team's ability to perform the TRIDENT's mission. Realistic simulated scenarios provide immediate feedback on performance.

The CCTT replicates major physical structures of the TRIDENT control room including the 8L(T) periscope platform, ship control station, AN/WLR-8 (V) 5, and various plotter tables.

There are two (2) modes of operation. In Stand Alone Mode, the CCTT is separate from the Sonar Team Training Laboratory (STTL). In Team Training Mode, the CCTT is coupled to the STTL.

Simulated equipment includes the MK 48 Torpedo, MK 57 MOSS, and functions of the MK 96, and a communication system.

Acoustics simulated include ocean environmental effects, ten (10) dynamic and two (2) fixed targets, hostile passive and active sonars, and ESM emissions.

DIRECTORY OF NAVAL TRAINING DEVICES

Trainer states are run, freeze, restart/play-back, and secure.

The instructor controls training through consoles. CRTs monitor the periscope, tactical displays, and the problem status. Displays may be recorded on hardcopy.

The 21A42 has two (2) AN/UYK-43 (V) processors, one (1) 11/785 processor, and distributed microprocessors.

An image generator and CRT simulate the periscope's dynamic scene of sea/sky and up to twelve (12) targets. All scene elements contribute to the sense of motion as the periscope rotates.

PHYSICAL INFORMATION:

Device is four (4) land-based rooms:

Computer Room: 25' x 40'

CCTT Laboratory: 25' x 31'

CCTT Control Room: 18' x 19'

CCTT Briefing Room: 19' x 25'

POWER REQUIREMENTS:

Input Characteristics	Max Peak Power (KVA)
120/208V, 60 Hz, 3-Ph, 4-wire	60.9
115V, 60 Hz, 3-Ph, 3-wire, DELTA	2.6
440V, 60 Hz, 3-Ph, 3-wire, DELTA	10.8
115V, 400 Hz, 3-Ph, 3-wire, DELTA	12.8
TOTAL	87.1

PUBLICATIONS FURNISHED:

1. NTSC P-5456 (U) Operation and Maintenance Manual
2. NTSC P-5469 (U) Commercial Computer Documentation Set
3. NTSC P-5470 (U) Preventive Maintenance System
4. NTSC P-5472 (U) Instructor's Utilization Handbook
5. NTSC P-5472-S1 (S) Instructor's Utilization Handbook
6. NTSC P-5473 (U) On-The-Job Training Handbook
7. NTSC P-5745 (U) Curriculum Course Outline
8. NTSC P-5746 (U) Instructor's Lesson Guide

EQUIPMENT REQUIRED (NOT SUPPLIED):

Security Cabinet

PERSONNEL:

Instructor/Operator: Four (4) Fire Control Technicians

Trainees: Class of up to Twenty (20)

Maintenance: Five (5) Senior Petty Officer fire control, data systems, and electronics technicians with experience and training in relevant specialties.

RELATED TRAINING EQUIPMENT:

Device 21A42 operates with the Sonar Team Training Laboratory (STTL) or separately.

CONTRACT IDENTIFICATION:

Manufactured by Link Tactical Simulation Div., Silver Spring, MD under NAVTRASYSCEN Contract No. N61339-86-C-0028.

LOCAL STOCK NUMBER:

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